



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Mike Monroney  
Aeronautical Center

P.O. Box 25082  
Oklahoma City, Oklahoma 73125

Friday, September 18, 2015

National Transportation Safety Board  
505 South 336th Street, Suite 540  
Federal Way, WA 98003

ACCIDENT # 0151    INDIVIDUAL#: 001    NAME: [REDACTED]    MODE: AVIATION  
DATE OF ACCIDENT 06/22/2015    DATE RECEIVED 07/31/2015    PUTREFACTION: No  
N # 206PZ    NTSB # WPR15FA195    CAMI REF # 201500151001  
LOCATION OF ACCIDENT Maricopa, CA  
SPECIMENS Muscle

### FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

**CARBON MONOXIDE:** The carboxyhemoglobin (COHb) saturation is determined by spectrophotometry with a 10% cut off and confirmed by chromatography.

>> NOT PERFORMED

**CYANIDE:** The presence of cyanide is screened by Conway Diffusion, when the COHb level is equal to or greater than 10% or upon special request. Cyanides are quantitated by spectrophotometry and confirmed by chromatography. The reporting cutoff for cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3 ug/mL.

>> NOT PERFORMED

**VOLATILES:** The volatile concentrations are determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanol values are confirmed by Radiative Energy Attenuation.

>> 46 (mg/dL, mg/hg) Ethanol detected in Muscle

**DRUGS:** Specimens are analyzed using immunoassay, chromatography, GC/MS, HPLC/MS, or GC/FTIR. Concentrations (ug/mL) at or above those in ( ) can be determined for, but not limited to, the following drugs: amphetamines (0.010), opiates (0.010), marijuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), and antihistamines (0.020). Drugs and/or their metabolites, that are not impairing or abused, may be reported from the initial tests. See the CAMI Drug Information Web Site for additional information (<http://jag.cami.jccbi.gov/toxicology/>).

>> 2.033 (ug/ml, ug/g) Butalbital detected in Muscle

>> 0.033 (ug/ml, ug/g) Codeine detected in Muscle

[REDACTED]

c=US, o=U.S. Government, ou=AMC, ou=AMC,  
cn=RUSSELL J LEWIS  
2015.09.24 11:01:47 -05'00'

Russell Lewis, Ph.D.  
TC, FAA, Forensic Toxicology  
Research Team CAMI